



QUADRANT POSITION	BLADE POSITION
B7, OR C1	0°, CLOSED
A5, OR D3	7 1/2° OPEN
B6, OR C2	15° OPEN
A4, OR D4	22 1/2° OPEN
B5, OR C3	30° OPEN
A3, OR D5	37 1/2° OPEN
B4, OR C4	45° OPEN
A2, OR D6	52 1/2° OPEN
B3, OR C5	60° OPEN
A1, OR D7	67 1/2° OPEN
B2, OR C6	75° OPEN
B1, OR C7	90°, FULL OPEN

$A_c = 330 \text{ in}^2 \cos \alpha$	
330 in ²	165 in ²
327 in ²	164 in ²
318 in ²	159 in ²
305 in ²	153 in ²
286 in ²	143 in ²
262 in ²	131 in ²
233 in ²	117 in ²
201 in ²	101 in ²
165 in ²	83 in ²
126 in ²	63 in ²
85 in ²	43 in ²
0 in ²	

$$r = 10.25 \text{ in}^2$$

$$A = \frac{\pi (10.25)^2}{2}$$

$$= 165 \text{ in}^2$$



$$\cos \alpha = A_c / A$$

$$A_c = A \cos \alpha$$

$$= 165 \text{ in}^2 \cos \alpha$$

SHOP NOTE:

ASSEMBLE ORIFICE COMPLETE FOR SHIPPING. DO NOT APPLY "GORE-TEX" SEALANT TO ANGLE FLANGE, SHIP LOOSE. CUSTOMER TO RECEIVE ONE COPY OF THIS INSTALLATION DRAWING WITH EACH ORDER.

PAINT PER E.S. DF803-01 SECT. 9.3.7.6

FIELD NOTE:

TO INSTALL ORIFICE - CUT SLOT IN PIPE, APPROX. 3" WIDE x 2' 1" LONG. THIS SIZE SLOT WILL ALLOW APPROX. 1/2" OF PIPE VISIBLE ALL AROUND ON THE INSIDE OF THE ANGLE FRAME FOR POSITIVE REMOVE ANY SLAG PROTRUSIONS AROUND CUT THAT MAY PREVENT OF ORIFICE BLADE, OR PREVENT THE COMPLETE SEATING OF CO ASSEMBLY IN ANGLE FRAME. REMOVE ANGLE FRAME FROM ORIFICE ASSEMBLY, CENTER ON OPE AND WELD. FRAME TO BE SEAL WELDED, AIR TIGHT, ON INSID AND STITCHED ON OUTSIDE. USE CARE WHEN WELDING SO AS N

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